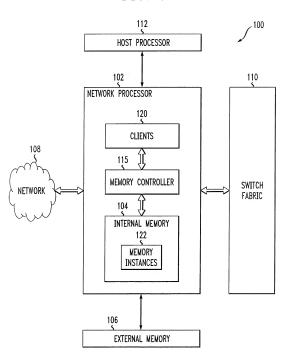
1/5

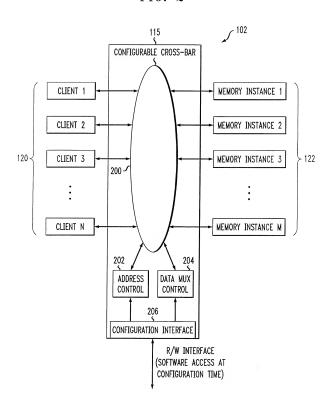
FIG. 1



BROWN 8-1 Serial No.: 10/699,092 Ryan, Mason & Lewis, LLP; J. B. Ryan (516) 759-2722

2/5

FIG. 2



BROWN 8-1 Serial No.: 10/699,092 Ryan, Mason & Lewis, LLP; J. B. Ryan (516) 759-2722

3/5

MEM1

MEM3

⊠ CL1

■ CL2 □ CL3 □ CL4

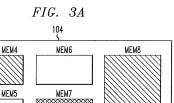
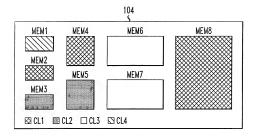




FIG. 3B



BROWN 8-1 Serial No.: 10/699,092 Ryan, Mason & Lewis, LLP; J. B. Ryan (516) 759-2722

4/5

FIG. 4A

MEMORY	CONFIGURED CAPACITY	WORD ADDRESSING RANGE [19:0]		ADDRESS DECODER VALUE [6:0]	ADDRESS MASK BITS [6:0]	RELEVANT BITS
MEM1	1MB	00000h	3FFFFh	7'b00x_xxxx	7'b001_1111	[19:18]
MEM2	1MB	40000h	7FFFFh	7'b01x_xxxx	7'b001_1111	[19:18]
MEM3	512KB	80000h	9FFFFh	7'b100_xxxx	7'ь000_1111	[19:17]
MEM4	512KB	A0000h	BFFFFh	7'b101_xxxx	7'ь000_1111	[19:17]
MEM5	256KB	C0000h	CFFFFh	7'b110_0xxx	7'ь000_0111	[19:16]
MEM6	128KB	D0000h	D7FFFh	7'b110_10xx	7'ь000_0011	[19:15]
MEM7	128KB	D8000h	DFFFFh	7'b110_11xx	7'ь000_0011	[19:15]
MEM8	64KB	E0000h	E3FFFh	7'b111_000x	7'ь000_0001	[19:14]
MEM9	32KB	E4000h	E5FFFh	7'b111_0010	7'ь000_0000	[19:13]

FIG. 4B

MEMORY SIZE	MASK BITS [6:0]		
1MB	7'b001_1111		
512KB	7'b000_1111		
256KB	7'b000_0111		
128KB	7'b000_0011		
64KB	7'b000_0001		
32KB	7'b000_0000		

BROWN 8-1 Serial No.: 10/699,092 Ryan, Mason & Lewis, LLP; J. B. Ryan (516) 759-2722

5/5

FIG. 4C

No. OF BITS	DESCRIPTION			
[6:0]	ADDRESS DECODER VALUE FOR A PARTICULAR INTERNAL MEMORY INSTANCE.			
[6:0]	ADDRESS MASK VALUE AS MENTIONED IN THE ABOVE TABLE, DEPENDING ON THE MEMORY INSTANCE SIZE.			
[4:0]	MASTER CLIENT FOR THE MEMORY INSTANCE. "00001" FOR CL1 "10100" FOR CL20.			

FIG. 5

500

